

940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT Alaskan Copper Works
P. O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 89533

DATE May 1, 1985

PO# A5580

REPORT ON

NITRIC ACID

SAMPLE IDENTIFICATION

Submitted 4/29/85 and identified as shown below:

3600-A5580

TESTS PERFORMED AND RESULTS:

Nitric Acid, % ------ 11.1

Respectfully submitted,

Laucks Testing Laboratories, Inc.

JMO:bq





940 South Harney St., Seattle. Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT

Alaskan Copper Works P. O. Box 3546 Seattle, WA 98124 ATTN: Jim Brown

LABORATORY NO. 89695

May 17, 1985

PO# A5673

REPORT ON

NITRIC ACID

SAMPLE IDENTIFICATION

Submitted 5/8/85 and identified as shown below:

ID #3200 A5673

TESTS PERFORMED AND RESULTS:

> Nitric Acid, % ----- 9.5 Specific Gravity at 72°F ----- 1.219

> > Respectfully submitted,

M. Owens

Laucks Testing Laboratories, Inc.

JMO:bg





LABORATORY NO.

DATE

90179

June 20, 1985

P.O. # 5905

940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT Alaskan Copper Works

P.O. Box 3546

Seattle, WA 98124

ATTN: Jim Brown

REPORT ON

METRO WASTE

IDENTIFICATION

Submitted 6/13/85 and identified as shown below:

Metro Waste Discharge ID # 3600-A5905

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Zinc	0.030
Chromium	0.009
Copper	0.028
Nickel	0.01

Respectfully submitted,

∕i. M. Owens

Laucks Testing Laboratories, Inc.

JMO:rw





940 South Harney St., Seattle. Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT Alaskan Copper Works

P.O. Box 3546

Seattle, WA 98124

ATTN: Jim Brown

LABORATORY NO.

90180

DATE

r∈ June 20, 1985

P.O. # 6906

REPORT ON

METRO WASTE

SAMPLE

Submitted 6/13/85 and identified as shown below:

IDENTIFICATION

Metro Waste Discharge ID # 3200-A5906

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

0.11
3.0
1.4
1.0

Respectfully submitted,

Laucks Testing Laboratories, Inc.

0. M. Owens

JMO:rw



Testing Laboratories, Inc. 940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry Microbiology, and Technical Services

CLIENT Alaskan Copper Works P. O. Box 3546

Seattle, WA 98124 ATTN: Jim Brown

REPORT ON

NITRIC ACID

90177 LABORATORY NO.

DATE June 25, 1985

P.O. # 5904

SAMPLE IDENTIFICATION

TESTS PERFORMED AND RESULTS:

Submitted 6/13/85 and identified as shown below:

ID #3600 - A5904

2)

ID #3200 - A5904

Nitric Acid, % Specific Gravity at 72°F

1 2 10.0 5.6 1.112 1.211

Respectfully submitted,

Laucks Testing Laboratories, Inc.

JMO:rw





LABORATORY NO.

90551

July 11, 1985

P.O. #A6100

940 South Harney St. Seattle Washington 98108 (206)767-5060

Chemistry Microbiology and Technical Services

Alaskan Copper Works

P. O. Box 3546

Seattle, WA 98124 ATTN: Jim Brown

REPORT ON

SAMPLE IDENTIFICATION

NITRIC ACID

Submitted 7/9/85 and identified as shown below:

ID #3200 - A6100

TESTS PERFORMED AND RESULTS:

> Nitric Acid, % -----Specific Gravity at 72°F -----

> > Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Quens

J. M. Owens

JMO:rw



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90552

July 18, 1985

P.O. #A6101

940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT Alaskan Copper Works

P. O. Box 3546

Seattle, WA 98124

ATTN: Jim Brown

REPORT ON

WASTE WATER

SAMPLE IDENTIFICATION

Submitted 7/9/85 and identified as shown below:

ID #3200 - A6101

TESTS PERFORMED AND RESULTS:

RECEIVED

LABORATORY NO.

AUG 15 REC'D

MAINTENANCE

Zinc, parts per million (mg/L) ------ 0.30 Chromium, parts per million (mg/L) ------ 1.7 Copper, parts per million (mg/L) ----- 0.80 Nickel, parts per million (mg/L) ----- 1.1

Respectfully submitted,

Laucks Testing Laboratories, Inc.

ຝ⁄. M. Owens

JMO:rw





940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT: Alaskan Copper Works

P. O. Box 3546 Seattle, WA 98124 ATTN: Jim Brown

REPORT ON:

WASTE DISCHARGE

LABORATORY NO. 92508

DATE:

Aug. 29, 1985

P0#

A6434

SAMPLE

IDENTIFICATION

Submitted 8/16/85 and identified as shown below:

ID# 3200-A6434

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Zinc ----- 0.028

Chromium ----- 0.30

Copper ---- 0.078

Nickel ----- 0.16

RECEIVED

SEP 3. P.M.

MAINTENANCE

Respectfully submitted,

Laucks Testing Laboratories, Inc.

Mike Nelson

MN: laj





92509

Sept. 5, 1985

P.O. #A6433

Certificate

LABORATORY NO.

940 South Harney St.. Seattle. Washington 98108 (206)767-5060

Chemistry. Microbiology, and Technical Services

CLIENT Alaskan Copper Works P. O. Box 3546 Seattle, WA 98124 ATTN: Jim Brown

NITRIC ACID

IDENTIFICATION

REPORT ON

Submitted 8/16/85 and identified as shown below.

ID #3200 - A6433

TESTS PERFORMED

Nitric Acid, % -----

Specific Gravity at 72°F -----

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:rw







940 South Harney St., Seattle. Washington 98108 (206)767-5060

Chemistry Microbiology and Technical Services

CLIENT: Alaskan Copper Works P.O. Box 3546

Seattle, WA 98124 ATTN: Jim Brown

DATE:

LABORATORY NO. 92810 Oct. 2, 1985

PO#

A-6577

REPORT ON:

NITRIC ACID

SAMPLE

IDENTIFICATION:

Submitted 9/04/85 and identified as shown below:

1) ID# 3200-A6577

TESTS PERFORMED AND RESULTS:

> Nitric Acid, % ----- 4.3 Specific Gravity at 72°F ----- 1.210

> > Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens
Tieres Lombard

JMO:1aj

Certificate

LABORATORY NO. 92809

DATE:

P0#

Oct. 3, 1985

A 6578

940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT: Alaskan Copper Works

Seattle, WA 98124

ATTN: Jim Brown

REPORT ON: WATER

SAMPLE

IDENTIFICATION:

Submitted 9/04/85 and identified as shown below:

1) ID# 3200 - A 6578

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

	1
Zinc	0.031
Chromium	<0.002
Copper	0.21
Nickel	0.39

Key

< indicates "less than"

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:laj







Oct. 2, 1985

A 6710

LABORATORY NO. 93035

DATE:

PO#

940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT: Alaskan Copper Works

P.O. Box 3546

Seattle, WA 98124

ATTN: Jim Brown

REPORT ON: NITRIC ACID

SAMPLE

IDENTIFICATION:

Submitted 9/18/85 and identified as shown below:

1) ID# 3600-A6710

TESTS PERFORMED AND RESULTS:

Nitric Acid, % ----- 5.2 Specific Gravity at 72° F ----- 1.060

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:1aj





940 South Harney St., Seattle. Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT

Alaskan Copper Works PO Box 3546 Seattle, WA 98124

LABORATORY NO.

93345

DATE

October 23, 1985

A 6889

REPORT ON

WATER

SAMPLE IDENTIFICATION

Submitted 10-19-85 and marked:

Metro Waste Discharge ID # 3200-A6889

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Zinc .087
Chromium .63
Copper .26
Nickel .36

Respectfully submitted,

LAUCKS TESTING LABORATORIES, INC.

∕ð. M. Owens

JMO:mjt





940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry Microbiology and Technical Services

CLIENT: Alaskan Copper Works

P.O. Box 3546

Seattle, WA 98124

LABORATORY NO. 93363

DATE:

Oct. 18, 1985

PO#

A6888

the to.

REPORT ON:

NITRIC ACID

SAMPLE

IDENTIFICATION:

Submitted 10/10/85 and identified as shown below:

Nitric Acid sample Test ID 3200-A6888

TESTS PERFORMED AND RESULTS:

Nitric Acid, % -----

Specific Gravity at 25 C --

DUE DATE	DISCOUNT	EXPENS	E DISTR.
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JOB/REG. NO.	TRUC	/	
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Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

RECEIVED OCT 2 3 1985





940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT Alaskan Copper Works

P.O. Box 3546

Seattle, WA 98124

ATTN: Jim Brown

REPORT ON

WATER

LABORATORY NO. 93770

DATE NOV. 13, 1985

P.O. #A 710#

SAMPLE IDENTIFICATION

Submitted 11/4/85 and identified as shown below:

Metro Waste Discharge Test ID #3200-A7104

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Zinc .043
Chromium .45
Copper .16
Nickel .22

Respectfully submitted,

Laucks Testing Laboratories, Inc.

JMO:br





LABORATORY NO. 93769-rev

A7103

Nov. 14, 1985

940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works

P.O. Box 3546

Seattle, WA 98124 ATTN: Jim Brown

REPORT ON: NITRIC ACID

SAMPLE

IDENTIFICATION:

Submitted 11/04/85 and identified as shown below:

I.D. # 3200-A7103 Nitric Acid sample

TESTS PERFORMED AND RESULTS:

> Total Acidity, calculated as % HN03 (methyl orange endpoint) ------

Specific Gravity at 25°C ----- 1,222.

Respectfully submitted,

Laucks Testing Laboratories, Inc.

DATE:

PO#

JMO:laj





LABORATORY NO.

P.O. #A7338

94172

Dec. 9, 1985

940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry, Microbiology, and Technical Services

CLIENT

Alaskan Copper Works P.O. Box 3546 Seattle, WA 98124 ATTN: Jim Brown

REPORT ON

NITRIC ACID

SAMPLE IDENTIFICATION

Submitted 12/4/85 and identified as shown below:

Nitric Acid Sample

TESTS PERFORMED AND RESULTS:

Specific Gravity at 25°C ------ 1.196

Total Acidity, calculated as

% HN03 (methyl orange endpoint) ------ 4.3

Respectfully submitted,

Laucks Testing Laboratories, Inc.

∕J.M. Owens

JMO:br





LABORATORY NO. 94173

DATE: Dec. 19, 1985

P.O. #A7337

940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry. Microbiology, and Technical Services

CLIENT: Alaskan Copper Works

3200 6th Ave. S. Seattle, WA 98134 ATTN: Jim Brown

REPORT ON:

WASTE DISCHARGE

SAMPLE

IDENTIFICATION:

Submitted 12/4/85 and identified as shown below:

TESTS PERFORMED

AND RESULTS:

Metro Sump Sample Waste Discharge

pH, glass electrode at 25 C ----- 12.2

parts per million (mg/L)

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inc		::::	0.

Key

L/ indicates "less than" * indicates "insufficient sample"

Respectfully submitted.

Laucks Testing Laboratories, Inc.

